## B. Claims

The following is a complete listing of the claims, and replaces all earlier versions and listings.

- (Previously Presented) A fabrication method of a mold for a microlens having a desired radius (R) of curvature, said method comprising the steps of:
- (a) preparing a substrate at least a portion of which is electrically conductive:
- (b) forming an insulating mask layer on the conductive portion of the substrate:
- (c) forming an opening in the mask layer to expose the conductive portion of the substrate at the opening such that a diameter or width  $(\varphi)$  of the opening is  $10 \text{um} \le \emptyset \le 0.35 \text{R}$ :
- (d) performing electroplating to form the mold with the desired radius (R) of curvature using the conductive portion of the substrate as a cathode to deposit a plated layer in the opening and on the mask layer; and
- (e) terminating electroplating when the electroplated layer reaches the  $desired\ radius\ (R)\ of\ the\ curvature\ after\ forming\ a\ minimum\ radius\ (R_{min})\ of\ curvature.$

## 2-6. (Cancelled)

 (Previously Presented) The method according to claim 1, wherein said step (d) comprises causing a current to flow between the cathode and an anode plate in an electroplating bath and said step (e) comprises ending the current flow.

## 8. (Cancelled)

- (Previously Presented) A fabrication method of a microlens having a desired radius (R) of curvature, said method comprising the steps of:
- (a) preparing a substrate at least a portion of which is electrically conductive:
- (b) forming an insulating mask layer on the conductive portion of the substrate:
- (c) forming an opening in the mask layer to expose the conductive portion of the substrate at the opening such that a diameter or width  $(\varphi)$  of the opening is  $10\mu$ m $\leq 0.35R$ ;
- (d) performing electroplating using the conductive portion of the substrate as a cathode to deposit a plated layer in the opening and on the mask layer;
- (e) terminating electroplating when the plated layer reaches the desired radius (R) of curvature after forming a minimum radius ( $R_{min}$ ) of curvature;
  - (f) forming a mold on the substrate;
  - (g) separating the mold from the substrate;
  - (h) coating a lens material on the mold; and
  - (i) separating the lens material from the mold.